

## Freeform Search

09/818,086

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Term:

L9 and monitor\$3

Display:  Documents in Display Format:  Starting with Number Generate: ☐ Hit List ☒ Hit Count ☐ Side by Side ☐ Image

Search

Clear

Interrupt

## Search History

DATE: Wednesday, June 02, 2004 [Printable Copy](#) [Create Case](#)Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ

<u>L11</u>	L10 and marcia	0	<u>L11</u>
<u>L10</u>	L9 and monitor\$3	18	<u>L10</u>
<u>L9</u>	L8 and nucleic acid	44	<u>L9</u>
<u>L8</u>	slater.in.	2187	<u>L8</u>
<u>L7</u>	L6 and nucleic acid	1	<u>L7</u>
<u>L6</u>	brankamp.in.	14	<u>L6</u>
<u>L5</u>	L4 and nucleic acid	1	<u>L5</u>
<u>L4</u>	baskin.in.	346	<u>L4</u>
<u>L3</u>	L2 and monitor\$3	2	<u>L3</u>
<u>L2</u>	L1 and irradiat\$3	2	<u>L2</u>
<u>L1</u>	amplif\$7 near5 primer\$1 near5 fluorescent near5 sequencing	4	<u>L1</u>



END OF SEARCH HISTORY

## Freeform Search

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<b>Database:</b>	US Pre-Grant Publication Full-Text Database
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	Derwent World Patents Index
	IBM Technical Disclosure Bulletins

<b>Term:</b>	monitor\$3 near5 amplif\$7 near5 sequencing	 
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<b>Display:</b>	<input type="text" value="10"/> Documents in Display Format: <input type="text" value="-"/>	Starting with Number <input type="text" value="11"/>
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**Generate:** ☐ Hit List ☒ Hit Count ☐ Side by Side ☐ Image

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Search

Clear

Interrupt

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### Search History

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**DATE:** Wednesday, June 02, 2004   [Printable Copy](#)   [Create Case](#)

**Set Name Query**

side by side

**Hit Count Set Name**

result set

*DB=USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ*

<u>L16</u>	monitor\$3 near5 amplif\$7 near5 sequencing	2	<u>L16</u>
<u>L15</u>	L14 AND HLA	3	<u>L15</u>
<u>L14</u>	L13 and (HIV or E.coli or Salmonella or Haemophilus)	41	<u>L14</u>
<u>L13</u>	L12 and sequencing	91	<u>L13</u>
<u>L12</u>	monitor\$3 near5 amplif\$7 near5 fluorescen\$2	148	<u>L12</u>
<u>L11</u>	L10 and marcia	0	<u>L11</u>
<u>L10</u>	L9 and monitor\$3	18	<u>L10</u>
<u>L9</u>	L8 and nucleic acid	44	<u>L9</u>
<u>L8</u>	slater.in.	2187	<u>L8</u>
<u>L7</u>	L6 and nucleic acid	1	<u>L7</u>
<u>L6</u>	brankamp.in.	14	<u>L6</u>
<u>L5</u>	L4 and nucleic acid	1	<u>L5</u>
<u>L4</u>	baskin.in.	346	<u>L4</u>
<u>L3</u>	L2 and monitor\$3	2	<u>L3</u>
<u>L2</u>	L1 and irradiat\$3	2	<u>L2</u>
<u>L1</u>	amplif\$7 near5 primer\$1 near5 fluorescent near5 sequencing	4	<u>L1</u>

09/18/86

=> s monitor###(10a)amplif#####(10a)sequencing  
L1 1 MONITOR###(10A) AMPLIF#####(10A) SEQUENCING

=> d l1

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2001:196458 CAPLUS  
DN 135:367357  
TI Terminal restriction fragment length polymorphism monitoring of genes  
amplified directly from bacterial communities in soils and sediments  
AU Bruce, Kenneth D.; Hughes, Mark R.  
CS Division of Life Sciences, King's College, London, SE1 8WA, UK  
SO Molecular Biotechnology (2000), 16(3), 261-269  
CODEN: MLBOEO; ISSN: 1073-6085  
PB Humana Press Inc.  
DT Journal  
LA English  
RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l1 bib ab kwic

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2001:196458 CAPLUS  
DN 135:367357  
TI Terminal restriction fragment length polymorphism monitoring of genes  
amplified directly from bacterial communities in soils and sediments  
AU Bruce, Kenneth D.; Hughes, Mark R.  
CS Division of Life Sciences, King's College, London, SE1 8WA, UK  
SO Molecular Biotechnology (2000), 16(3), 261-269  
CODEN: MLBOEO; ISSN: 1073-6085  
PB Humana Press Inc.  
DT Journal  
LA English  
AB Terminal Restriction Fragment Length Polymorphism (T-RFLP) or Fluorescent  
Polymerase Chain Reaction/Restriction Fragment Length Polymorphism  
(FluRFLP) have made a significant impact on the way in which PCR products  
amplified from mixed community DNA exts. have been assessed. Tech., these  
approaches are essentially the same. PCR products are generated that  
contain at one 5' end label, typically a fluorescent moiety, that will be  
detected by a DNA sequencing machine. Upon digestion using a specific  
restriction endonuclease, labeled and unlabeled fragments are generated.  
This restriction endonuclease is chosen such that following this  
digestion, each labeled fragment corresponds to a different sequence  
variant. During electrophoretic separation, the DNA sequencing machine detects  
only these labeled fragments and therefore detects only the sequence  
variants. The aim of this article is to describe the protocols and  
demonstrate that this profiling can be performed using different DNA  
sequencing machines. The anal. and applications of this approach are also  
discussed.

RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT DNA sequence analysis  
Fluorescence  
(PCR products contain at one 5' end a fluorescent moiety, to be  
detected by DNA **sequencing** machine; terminal restriction  
fragment length polymorphism **monitoring** of genes  
**amplified** directly from bacterial communities in soils and  
sediments)

=> s amplif#####(10a)monitor###(10a)fluorescen##  
L2 143 AMPLIF#####(10A) MONITOR###(10A) FLUORESCEN##

=> s l2 and sequencing  
L3 7 L2 AND SEQUENCING

=> dup rem l3  
PROCESSING COMPLETED FOR L3  
L4 5 DUP REM L3 (2 DUPLICATES REMOVED)

=> d l4 1-5 bib ab kwic

L4 ANSWER 1 OF 5 MEDLINE on STN DUPLICATE 1  
AN 2002346153 MEDLINE  
DN PubMed ID: 12089280  
TI Detection of duck hepatitis B virus DNA on filter paper by PCR and SYBR  
green dye-based quantitative PCR.  
AU Wang Chi-Young J; Giambrone Joseph J; Smith Bruce F  
CS Department of Poultry Science, College of Veterinary Medicine, Auburn  
University, Auburn, Alabama 36849, USA.  
SO Journal of clinical microbiology, (2002 Jul) 40 (7) 2584-90.  
Journal code: 7505564. ISSN: 0095-1137.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200208  
ED Entered STN: 20020629  
Last Updated on STN: 20020827  
Entered Medline: 20020826  
AB Duck hepatitis B virus (DHBV) belongs to the Hepadnaviridae family, which  
includes human Hepatitis B virus (HBV) and Woodchuck hepatitis virus. It  
is widely distributed in wild and domestic ducks due to congenital  
transmission. HBV is a worldwide health problem, with carriers at risk of  
developing cirrhosis and liver cancer. Medical staff and scientists  
working with HBV must be vaccinated because of its contagious nature.  
DHBV is a safe surrogate for HBV because of their similarities.  
Collection of serum and blood samples on filter paper has been used to  
screen for metabolic disorders, genetic diseases, and viral infection and  
for evolutionary studies of the genome. In this study, DHBV from serum  
and blood dried on filters was detected by PCR. A 0.1-microl sample was  
sufficient for detection. The immobilization potential of filter papers  
for DHBV was examined, and the highest yield of PCR products was observed  
with Whatman paper. Dried serum was stable under different storage  
temperatures for 4 weeks, but the yields of PCR products decreased when  
the temperature was  $\geq 4$  degrees C. The optimal condition for storage  
was -70 degrees C. A newly developed quantitative PCR based on  
**monitoring the amplification** by measuring the increase  
in **fluorescence** caused by the binding of SYBR green dye to  
double-stranded products was applied herein. DHBV genomic DNA cloned in a  
plasmid was used for the generation of standard DHBV DNA for quantitative  
PCR. It validated results from PCR in terms of the copy number of DHBV  
particles. The specificity of PCR was demonstrated by melting curve  
analysis, and the differentiation of two DHBV isolates amplified from  
dried serum was demonstrated based on their melting temperatures  
determined by GC contents and sequence. It was easier and simpler than  
other PCR-based DNA techniques. The use of serum dried on filters allows  
samples from distant field for which cold storage and transportation are a  
problem to be mailed to the diagnostic laboratory. Samples can be  
archived for comparison and used as a source of DNA for cloning and  
**sequencing**.  
AB . . . was  $\geq 4$  degrees C. The optimal condition for storage was -70  
degrees C. A newly developed quantitative PCR based on **monitoring**  
the **amplification** by measuring the increase in  
**fluorescence** caused by the binding of SYBR green dye to  
double-stranded products was applied herein. DHBV genomic DNA cloned in

a. . . to the diagnostic laboratory. Samples can be archived for comparison and used as a source of DNA for cloning and **sequencing**

L4 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2001:317029 BIOSIS  
DN PREV200100317029  
TI **Monitoring** of mixed chimerism by a technique using  
**fluorescence** based PCR **amplification** of microsatellite  
after allogeneic hematopoietic stem cell transplantation.  
AU Saito, Akiko [Reprint author]; Ogawa, Seishi [Reprint author]; Hadama,  
Tohru; Kinoshita, Moritoshi; Chiba, Shigeru [Reprint author]; Hirai,  
Hisamaru [Reprint author]  
CS Hematology and Oncology, University of Tokyo, Bunkyo-ku, Tokyo, Japan  
SO Blood, (November 16, 2000) Vol. 96, No. 11 Part 1, pp. 395a. print.  
Meeting Info.: 42nd Annual Meeting of the American Society of Hematology.  
San Francisco, California, USA. December 01-05, 2000. American Society of  
Hematology.  
CODEN: BLOOAW. ISSN: 0006-4971.  
DT Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
Conference; (Meeting Poster)  
LA English  
ED Entered STN: 4 Jul 2001  
Last Updated on STN: 19 Feb 2002  
AB (Introduction) Monitoring of mixed chimerism following hematopoietic stem  
cell transplantation (HSCT) provides an important clue to evaluate  
engraftment and to detect graft failure or early relapse. Several  
techniques have been applied for this purpose; Mixed chimerism after  
sex-mismatched transplant can be quickly and quantitatively assessed by  
fluorescent in situ hybridization (FISH) analysis using X- and Y-specific  
probes. Assessment of chimerism in sex-matched transplant has also been  
possible by differentially detecting a polymorphic allele(s) between the  
donor and recipient. However, the conventional methods for quantitative  
detection of polymorphisms such as VNTRs have been frequently too  
time-consuming in the context of clinical applications. In this study we  
intended to develop a simple method for quickly estimating post-transplant  
chimerism. (Materials and methods) Genomic DNA was extracted from bone  
marrow and/or blood samples of 27 donor-recipient pairs following  
allogeneic HSCT and subjected to the microsatellite PCR analysis, in which  
three microsatellite loci, D18S51, D20S471 and D22S684, were PCR-amplified  
using fluorescent primers from the genomic DNAs and length of the PCR  
products were analyzed using an ABI PRISM 377 automated sequence analyzer.  
Because the polymorphism in a given locus is represented by the difference  
in the length of the corresponding PCR products, we first determined the  
informative loci which showed different electrophoretic mobilities between  
the donor-recipient pair, and then assessed the chimerism in a given  
sample by measuring relative intensity of each polymorphic peak for the  
informative loci. Reliability of this assay was tested by measuring  
chimerism of the standard DNA samples whose donor/recipient-composition  
was already known, and by comparing the results with those obtained from  
other assays, for example, XY-FISH. (Results) In our method, 11 of 11  
(100%) cases transplanted from unrelated donors and 13 of 16 (81%) cases  
from related donors had at least one informative microsatellite locus.  
Measurement of the standard DNA samples show a linear correlation between  
the measured values for donor-recipient ratios and the standardized values  
for the DNA composition. More than 10% of chimera can be stably detected,  
using as little as ten nanograms of sample DNA. In 11 patients, results  
from the microsatellite PCR showed excellent concordance with the data  
obtained from the conventional FISH analysis using X- and Y-specific  
probes and/or probes detecting tumor-specific translocations.  
(Conclusions) Fluorescent primer-based microsatellite PCR assay is a  
feasible, rapid and reliable technique for assessment of mixed chimerism  
after allogeneic HSCT, even with minuscule samples.

TI **Monitoring** of mixed chimerism by a technique using **fluorescence** based PCR **amplification** of microsatellite after allogeneic hematopoietic stem cell transplantation.

IT hybridization [FISH]: diagnostic method; microsatellite PCR [microsatellite polymerase chain reaction]: DNA amplification, amplification method, fluorescence-based, in-situ recombinant gene expression detection, **sequencing** techniques

IT Miscellaneous Descriptors chromosomal translocations: tumor-specific; electrophoretic mobility; engraftment; mixed chimerism; Meeting Abstract; Meeting Poster

L4 ANSWER 3 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 AN 1999:135568 BIOSIS  
 DN PREV199900135568

TI Identification of *Leptospira biflexa* by real-time homogeneous detection of rapid cycle PCR product.

AU Woo, T. H. S; Patel, B. K. C. [Reprint author]; Cinco, M.; Smythe, L. D.; Norris, M. A.; Symonds, M. L.; Dohnt, M. F.; Piispanen, J.

CS Sch. Biomol. Biomed. Sci., Fac. Sci., Griffith Univ., Nathan Campus, Brisbane, QLD 4111, Australia

SO Journal of Microbiological Methods, (Feb., 1999) Vol. 35, No. 1, pp. 23-30. print.  
 CODEN: JMIMDQ. ISSN: 0167-7012.

DT Article  
 LA English  
 ED Entered STN: 31 Mar 1999  
 Last Updated on STN: 31 Mar 1999

AB Sequence analysis of 16S rRNA genes extracted from nucleic acids databases enabled the identification of a *Leptospira biflexa* (*L. biflexa*) signature sequence, against which a reverse primer designated L613, was designed. This primer, when used in conjunction with a universal bacterial specific forward primer designated Fd1, enabled the development of a LightCycler<sup>TM</sup>-based PCR protocol in which **fluorescence** emission due to binding of SYBR Green I dye to **amplified** products could be detected and **monitored**. A melting temperature (*T<sub>m</sub>*), determined from the melting curve of the amplified product immediately following the termination of thermal cycling, confirmed that the product was that of *L. biflexa*. Agarose gel electrophoresis therefore was not necessary for identification of PCR products. The PCR protocol was very rapid, and consisted of 30 cycles with a duration of 20 s for each cycle with the monitoring of the melting curve requiring an additional 3 min. The whole protocol was completed in less than 20 min. The PCR protocol was also specific and enabled the identification of 18 strains of *L. biflexa*, whilst excluding 14 strains of *L. interrogans* and *Leptonema illini*. Two examples of its utility in improving work flow of a *Leptospira* reference laboratory are presented in this article. The use of a simple boiling method for extraction of DNA from all the members of the Leptospiraceae family DNA further simplifies the procedure and makes its use conducive to diagnostic laboratories.

AB. . . conjunction with a universal bacterial specific forward primer designated Fd1, enabled the development of a LightCycler<sup>TM</sup>-based PCR protocol in which **fluorescence** emission due to binding of SYBR Green I dye to **amplified** products could be detected and **monitored**. A melting temperature (*T<sub>m</sub>*), determined from the melting curve of the amplified product immediately following the termination of thermal cycling, . . .

IT analytical method, gel electrophoresis; DNA extraction: Isolation/Purification Techniques: CB, extraction method; LightCycler PCR [polymerase chain reaction]: DNA amplification, amplification method, **sequencing** techniques, in-situ recombinant gene expression detection

IT Miscellaneous Descriptors

nucleotide sequence

L4 ANSWER 4 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 1999:219054 BIOSIS  
DN PREV199900219054  
TI Continuous fluorescent monitoring of rapid cycle polymerase chain reaction.  
AU Pritham, Gregory H.; Wittwer, Carl T. [Reprint author]  
CS Department of Pathology, University of Utah Medical School, 50 N. Medical Drive, Salt Lake City, UT, 84132, USA  
SO Journal of Clinical Ligand Assay, (Winter, 1998) Vol. 21, No. 4, pp. 404-412. print.  
ISSN: 1081-1672.  
DT Article  
LA English  
ED Entered STN: 7 Jun 1999  
Last Updated on STN: 7 Jun 1999  
AB Polymerase chain reaction (PCR) amplification and analysis can be performed rapidly. Indeed, both amplification and analysis can occur simultaneously in the same instrument in only 10-30 minutes. Rapid cycle PCR is possible because denaturation, annealing, and extension are fast reactions. Currently, cycling speeds are limited by instrumentation, not chemistry. If rapid cycle PCR is continuously monitored with a fluorimeter, amplification progress can be followed with double-stranded DNA specific dyes or resonance energy transfer probes of multiple designs. Initial template copy number can be determined by monitoring fluorescence once each cycle. Continuous monitoring of fluorescence within a cycle as the temperature is changing can be used to follow product or probe hybridization. Fluorescence melting curves immediately after amplification provide dynamic dot blots of hybridization for product identification or single base genotyping.  
IT Methods & Equipment  
fluorimeter: laboratory equipment; genotyping: analytical method; polymerase chain reaction: DNA amplification, analytical method, **sequencing** techniques, molecular genetic method, in-situ recombinant gene expression detection; rapid cycle polymerase chain reaction-continuous **fluorescent monitoring**: DNA **amplification**, **sequencing** techniques, molecular genetic method, analytical method, in-situ recombinant gene expression detection  
IT Miscellaneous Descriptors  
instrumentation; melting curves; mutations: detection; template. . .  
  
L4 ANSWER 5 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 1998:472877 BIOSIS  
DN PREV199800472877  
TI Fluorescence cross-correlation: A new concept for polymerase chain reaction.  
AU Rigler, Rudolf [Reprint author]; Foeldes-Papp, Zeno; Meyer-Almes, Franz-Josef; Sammet, Cyra; Voelcker, Martin; Schnetz, Andreas  
CS Dep. Med. Biophys., MBB, Karolinska Inst., S-17177 Stockholm, Sweden  
SO Journal of Biotechnology, (Aug. 12, 1998) Vol. 63, No. 2, pp. 97-109. print.  
CODEN: JBITD4. ISSN: 0168-1656.  
DT Article  
LA English  
ED Entered STN: 5 Nov 1998  
Last Updated on STN: 5 Nov 1998  
AB In this article we present a new concept for the detection of any specifically amplified target DNA sequences in multiple polymerase chain reactions (PCR) based on fluorescence correlation spectroscopy (FCS). The accumulation of double-stranded target DNA is **monitored** by the cross-correlated **fluorescence** signals provided by two **amplification** primers which are 5'-tagged with two different kinds

of fluorophores (Rhodamine-Green and Cy5). Only the amplified target DNA sequence carrying both primers is observed. Its signal emerges from the background of non-incorporated or non-specifically incorporated primers. Down to 10-25 initial copy numbers of the template in the PCR compartment DNA can presently be detected. No external or internal standards are required for determining the size and the amplified copy number of specific DNA. The PCR amplification process is started with all ingredients in a single compartment (e.g. of a microtiter plate), in which amplification and measurement are performed. This eliminates the need for post-PCR purification steps. The homogeneous one-tube approach does not depend on fluorescence energy transfer between the fluorogenic dyes. Thus, it does not interfere with the enzymatic amplification reaction of PCR and allows the continued use of different conditions for amplifying DNA. The results exemplified by PCR-amplified 217-bp and 389-bp target DNA sequences demonstrate that the analysis based on two-color fluorescence cross-correlation is a powerful method for simplifying the identification of targets in PCR for medical use. For this purpose, an instrument optimized for two-color excitation and detection of two-color emission has been developed, incorporating the principle of confocal arrangement.

AB. . . sequences in multiple polymerase chain reactions (PCR) based on fluorescence correlation spectroscopy (FCS). The accumulation of double-stranded target DNA is **monitored** by the cross-correlated **fluorescence** signals provided by two **amplification** primers which are 5'-tagged with two different kinds of fluorophores (Rhodamine-Green and Cy5). Only the amplified target DNA sequence carrying. . .

IT Methods & Equipment

polymerase chain reaction: DNA amplification, in-situ recombinant gene expression detection, **sequencing** techniques, molecular genetic method; two-color fluorescence cross-correlation spectroscopy: analytical method

IT Miscellaneous Descriptors

biotechnology

=>